## **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

1. (Currently Amended) A method of recording field data <u>by a user</u> to facilitate the creation of a contour map using a handheld GPS receiver comprising the steps of:

setting up a grid network;

forcing the user to enter entering data as GPS waypoints in the grid network;

forcing the user to enter entering data as GIS point feature descriptions in the grid network;

uploading the GPS waypoints and the GIS description to the GIS.

- 2. (Original) The method of claim 1, wherein the GPS waypoints and the GIS descriptions are entered in an evenly spaced grid.
- 3. (Original) The method of claim 1, wherein the grid network is an array of waypoints oriented in rows and columns.
- 4. (Original) The method of claim 1, wherein data includes visual observations and measurements made by field sensors.
- 5. (Original) The method of claim 4, wherein the field sensors include depth sounders, chemical detectors, magnetometers, thermometers and hydrometers.
- 6. (Original) The method of claim 1, wherein said GPS waypoints are one of a point, line and area.

- 7. (Original) The method of claim 1, wherein said GIS waypoints are one of a point, line and area.
- 8. (Original) The method of claim 1, wherein said grid network is set up either on the GPS receiver or on a PC-type computer.
- 9. (Original) The method of claim 2, wherein said evenly spaced grid points can be adjusted in both vertical and horizontal directions.
  - 10. (Original) The method of claim 2, comprising adjusting said grid in size.
  - 11. (Original) The method of claim 2, comprising reorienting said grid.
- 12. (Original) The method of claim 1, comprising navigating to a first waypoint before performing said entering steps.
- 13. (Original) The method of claim 1, wherein each entered GPS waypoint is assigned GIS feature attributes.
- 14. (Original) The method of claim 1, comprising uploading the grid network from a PC-type computer to said handheld GPS receiver.
- 15. (Original) A method of creating a grid map on a computer to be used by a handheld GPS device, comprising steps of:

setting up an evenly spaced grid including uniformly spaced points oriented in rows and columns;

inputting grid points to be used by a user using the handheld GPS device to perform measurements or observations.

16. (Original) The method of claim 15, wherein data includes measurements made by field sensors.

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- 17. (Original) The method of claim 16, wherein the field sensors include depth sounders, chemical detectors, magnetometers, thermometers and hydrometers.
- 18. (Original) The method of claim 15, wherein said grid points are one of a point, line and area.
- 19. (Original) The method of claim 15, which said evenly spaced grid points can be adjusted in both vertical and horizontal directions.
  - 20. (Original) The method of claim 15, comprising adjusting said grid in size.
- 21. (Original) A method of entering data from a handheld GPS device into a grid network on the handheld GPS device, the grid network created on a PC-type computer, comprising the steps of:

entering feature data on grid features; and entering feature data on grid points.